

IN THE CLAIMS:

The text of all pending claims, (including withdrawn claims) is set forth below. Cancelled and not entered claims are indicated with claim number and status only. The claims as listed below show added text with underlining and deleted text with ~~strikethrough~~. The status of each claim is indicated with one of (original), (currently amended), (cancelled), (withdrawn), (new), (previously presented), or (not entered).

Please CANCEL claims 3, 14 and 19 without prejudice or disclaimer; and AMEND claims 1, 2, 12, 13 and 32 in accordance with the following:

Claim 1 (Currently Amended): An information storage medium comprising:
a user data area provided with a sequence of basic recording units to record user data,
wherein information about the user data area, where user data is recorded, is recorded in
at least one of an area right before and an area right after ~~each~~ basic recording unit of the user
data area, disposed between successive basic recording units in the user data area, and
wherein the basic recording unit of the user data area is a physical cluster, and the
information about the user data area is recorded in at least one of a run-in area and a run-out
area that is right before and after the physical cluster, respectively.

Claim 2 (Currently Amended): The information storage medium of claim 1,
wherein the basic recording unit of the user data area is one of ~~a physical cluster~~, an error
correction code (ECC) block, a sector, and a frame.

Claim 3 (Canceled):

Claim 4 (Original): The information storage medium of claim 3,
wherein:
the information storage medium has at least two information storage layers, and
the information about the user data area is recorded in at least one of the area right
before and the area right after the basic recording unit of the user data area in different patterns
for the different information storage layers.

Claim 5 (Original): The information storage medium of claim 3,
wherein the information about the user data area is recorded using addresses.

Claim 6 (Original): The information storage medium of claim 3, wherein the information about the user data area is storage layer information.

Claim 7 (Original): The information storage medium of claim 6, wherein the storage layer information is recorded using addresses.

Claim 8 (Original): The information storage medium of claim 1, wherein:
the information storage medium has at least two information storage layers, and
the information about the user data area is recorded in at least one of the area right before and the area right after the basic recording unit of the user data area in different patterns for the different information storage layers.

Claim 9 (Original): The information storage medium of claim 1, wherein the information about the user data area is recorded using addresses.

Claim 10 (Original): The information storage medium of claim 1, wherein the information about the user data area is storage layer information.

Claim 11 (Original): The information storage medium of claim 10, wherein the storage layer information is recorded using addresses.

Claim 12 (Currently Amended): A method of recording and/or reproducing data on an information storage medium having a user data area provided with a sequence of basic recording units to record user data, the method comprising:

reading information about the user data area, where user data is recorded, from at least one of an area right before and an area right after a each basic recording unit of the user data area, disposed between successive basic recording units in the user data area; and

recording and/or reproducing data based on the information about the user data area, wherein the basic recording unit of the user data area is a physical cluster, and the information about the user data area is recorded in at least one of a run-in area and a run-out area that is right before and after the physical cluster, respectively.

Claim 13 (Currently Amended): The method of claim 12, wherein the basic recording unit of the user data area is one of ~~a physical cluster~~, an error correction code (ECC)

block, a sector, and a frame.

Claim 14 (Canceled):

Claim 15 (Previously Presented): The method of claim 13, wherein:
the information storage medium has at least two information storage layers, and
the information about the user data area is recorded in at least one of the area
immediately before and the area immediately after the basic recording unit of the user data area
in different patterns for the different information storage layers.

Claim 16 (Original): The method of claim 13, wherein the information
about the user data area is recorded using addresses.

Claim 17 (Original): The method of claim 13, wherein the information
about the user data area is storage layer information.

Claim 18 (Original): The method of claim 17, wherein the storage layer
information is recorded using addresses.

Claim 19 (Canceled):

Claim 20 (Previously Presented): The method of claim 12, wherein:
the information storage medium has at least two information storage layers, and
the information about the user data area is recorded in at least one of the area
immediately before and the area immediately after the basic recording unit of the user data area
in different patterns for the different information storage layers.

Claim 21 (Original): The method of claim 12, wherein the information
about the user data area is recorded using addresses.

Claim 22 (Original): The method of claim 12, wherein the information
about the user data area is storage layer information.

Claim 23 (Original): The method of claim 22, wherein the storage layer
information is recorded using addresses.

Claim 24 (Original): The information storage medium of claim 1, wherein the information storage medium is a recordable information storage medium.

Claim 25 (Original): The information storage medium of claim 1, wherein the information storage medium is a reproduction-only storage medium.

Claim 26 (Original): The information storage medium of claim 1, wherein the information storage medium is one of recordable and reproduction-only optical discs.

Claim 27 (Original): The information storage medium of claim 2, wherein the information about the user data area is recorded using one or more addresses of the ECC block.

Claim 28 (Original): The information storage medium of claim 3, wherein the information storage medium is a reproduction-only storage medium.

Claim 29 (Original): The information storage medium of claim 3, wherein each of the information storage layers includes a lead-in area, a lead-out area and the user data area.

Claim 30 (Previously Presented): The information storage medium of claim 4, wherein the different patterns are one of different consecutive patterns of identical intervals and different patterns of different sized intervals.

Claim 31 (Previously Presented): The information storage medium of claim 8, wherein the different patterns are one of different consecutive patterns of identical intervals and different patterns of different sized intervals.

Claim 32 (Currently Amended): A method of operating a storage medium having a user data area provided with a sequence of basic recording units to store user data, the method comprising:

accessing information about the user data area, where user data is recorded, from at least one of an area right before and an area right after a basic recording unit of the user data

area, disposed between successive basic recording units in the user data area; and
operating the storage medium based on the accessed information,
wherein the basic recording unit of the user data area is a physical cluster, and the
information about the user data area is recorded in at least one of a run-in area and a run-out
area that is right before and after the physical cluster, respectively.

Claim 33 (Original): The method of claim 32, further comprising
recognizing a layer of the storage medium based on the accessed information, wherein the
operating of the storage medium includes recording and/or reproducing data with respect to the
layer.

Claim 34 (Original): The method of claim 33, wherein the recognizing of
the layer comprises recognizing the layer in response to the accessed information belonging to a
predetermined group of addresses.

Claim 35 (Original): The method of claim 32, further comprising
identifying a desired layer of the storage medium based on ranges to which the accessed
information belongs.

Claim 36 (Original): The method of claim 35, wherein the identifying of
the desired layer comprises:
recognizing a storage layer of the storage medium as the desired layer in response to the
accessed information belonging to a predetermined range; and
in response to the accessed information not belonging to the predetermined range,
accessing another storage layer of the storage medium so as to determine whether accessed
information thereof belongs to the predetermined range.

Claim 37 (Original): The method of claim 36, wherein the operating of
the storage medium includes recording and/or reproducing data with respect to the desired layer.

Claim 38 (Original): The method of claim 32, further comprising
identifying storage layers of the storage medium, wherein the identifying of the storage layers
comprises:

recognizing a first layer of the storage layers in response to the accessed information
belonging to a first predetermined range;

in response to the accessed information not belonging to the first predetermined range, accessing a second layer of the storage layers so as to determine whether accessed information thereof belongs to a second predetermined range;

recognizing the second layer of the storage layers in response to accessed information thereof belonging to the second predetermined range; and

in response to the accessed information of the second layer not belonging to the second predetermined range, accessing another layer of the storage layers so as to determine whether accessed information thereof belongs to the second predetermined range.